DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11647930

00736ET3E184T-W22 Catalog #:

Frame : 182/4T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

: -20°C to +40°C Starting method Ambient temperature : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 99.2 lb Altitude

: IP55 Protection degree Moment of inertia (J) : 0.2242 sq.ft.lb

Design		: A						
Output [HP]		7.5	5.5	5.5	5.5	7.5	7.5	7.5
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		17.5/8.76	7.84	7.62	7.47	10.9	10.3	10.0
L. R. Amperes [A]		144/71.8	65.1	69.3	71.7	68.7	72.1	74.0
LRC [A]		8.2x(Code J)	8.3x(Code J)	9.1x(Code K)	9.6x(Code L)	6.3x(Code	7.0x(Code H)	7.4x(Code H)
						G)		
No load current [A	.]	5.80/2.90	2.70	3.00	3.20	2.70	3.00	3.20
Rated speed [RPI	Л]	3485	2900	2910	2915	2810	2840	2860
Slip [%]	Slip [%]		3.33	3.00	2.83	6.33	5.33	4.67
Rated torque [ft.lb]	Rated torque [ft.lb]		9.96	9.93	9.91	14.0	13.9	13.8
Locked rotor torqu	ie [%]	270	310	350	370	220	250	270
Breakdown torque	: [%]	330	360	390	430	260	280	310
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		30s (cold)	28s (cold)	27s (cold)	27s (cold)	28s (cold)	27s (cold)	27s (cold)
		17s (hot)	16s (hot)	15s (hot)	15s (hot)	16s (hot)	15s (hot)	15s (hot)
Noise level ²		66.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%	88.2	84.2	85.1	85.4	88.8	88.9	89.0
Efficiency (%)	50%	88.5	85.5	85.9	86.2	87.0	87.5	88.0
Linciency (70)	75%	89.5	87.0	87.6	88.1	87.0	88.0	88.5
	100%	89.5	88.1	88.1	88.7	84.5	86.0	87.0
	25%	0.51	0.48	0.43	0.40	0.58	0.53	0.50
Power Factor	50%	0.75	0.70	0.66	0.63	0.80	0.77	0.74
1 OWEI FACIOI	75%	0.84	0.82	0.79	0.77	0.88	0.86	0.84

0.86

0.84

Non drive end Drive end Foundation loads 6207 ZZ 6206 ZZ

0.88

Bearing type Max. traction : 223 lb Sealing V'Ring V'Ring Max. compression : 322 lb Lubrication interval

0.88

Lubricant amount Lubricant type Mobil Polyrex EM

100%

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

0.91

0.90

0.88

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Three Phase Induction Motor - Squirrel Cage

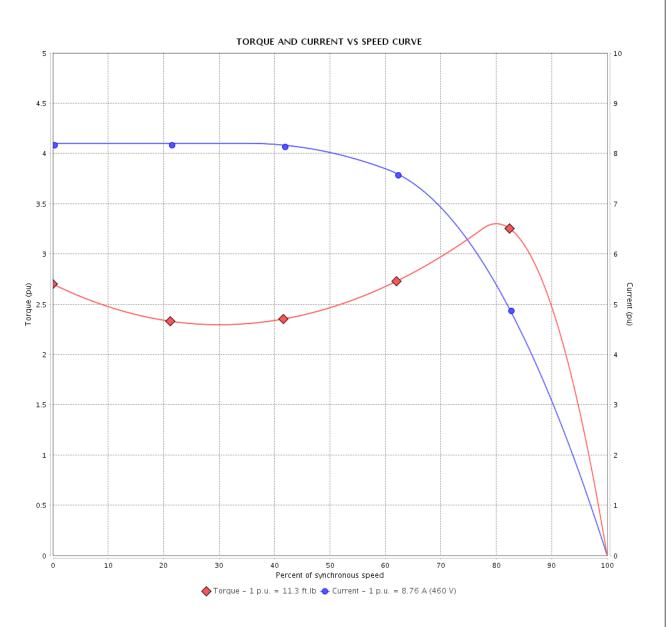


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11647930

Phase

Catalog #: 00736ET3E184T-W22



Performance : 230/460 V 60 Hz 2P Rated current : 17.5/8.76 A Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 11.3 ft.lb : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 3485 rpm Design : A

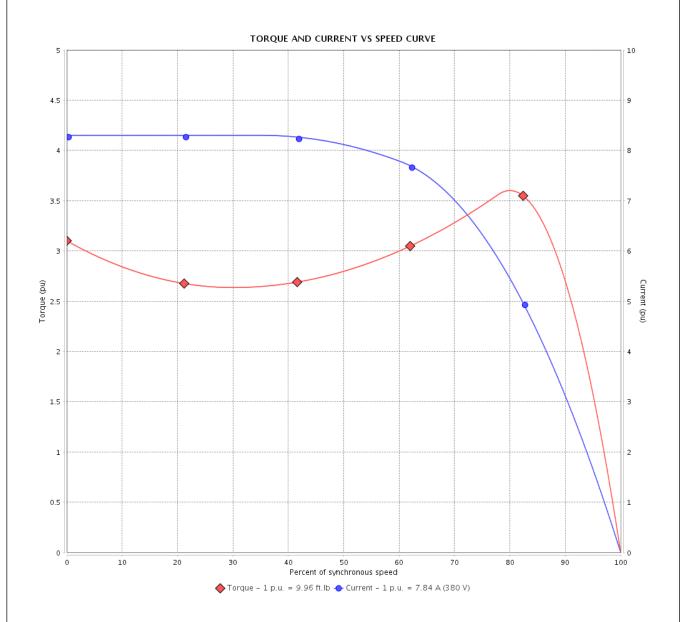
Locked rotor time : 30s (cold) 17s (hot)

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Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11647930 Catalog #: 00736ET3E184T-W22



Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 7.84 A	Moment of inertia (J)	: 0.2242 sq.ft.lb
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 9.96 ft.lb	Insulation class	:F
Locked rotor torque	: 310 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: A
Locked rotor time	: 28s (cold) 16s (hot)		

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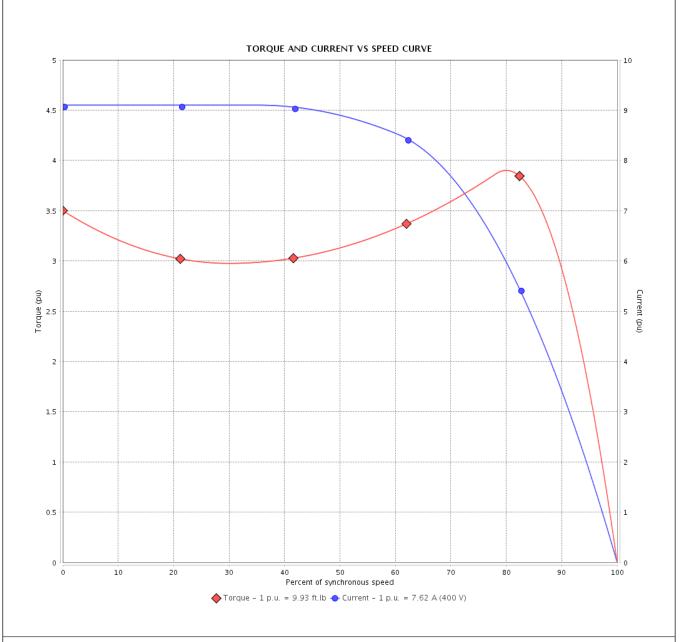
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11647930

Catalog #: 00736ET3E184T-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 7.62 A Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** : 9.1 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 9.93 ft.lb Service factor Locked rotor torque : 350 % : 1.00 : 80 K Breakdown torque : 390 % Temperature rise Rated speed : 2910 rpm Design : A

Locked rotor time : 27s (cold) 15s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11647930 Catalog #: 00736ET3E184T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 9.91 ft.lb ◆ Current - 1 p.u. = 7.47 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 7.47 A Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** : 9.6 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 9.91 ft.lb Locked rotor torque : 370 % Service factor : 1.00 Breakdown torque : 430 % Temperature rise : 80 K Rated speed : 2915 rpm Design : A Locked rotor time : 27s (cold) 15s (hot) Date Rev. Performed Checked **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage



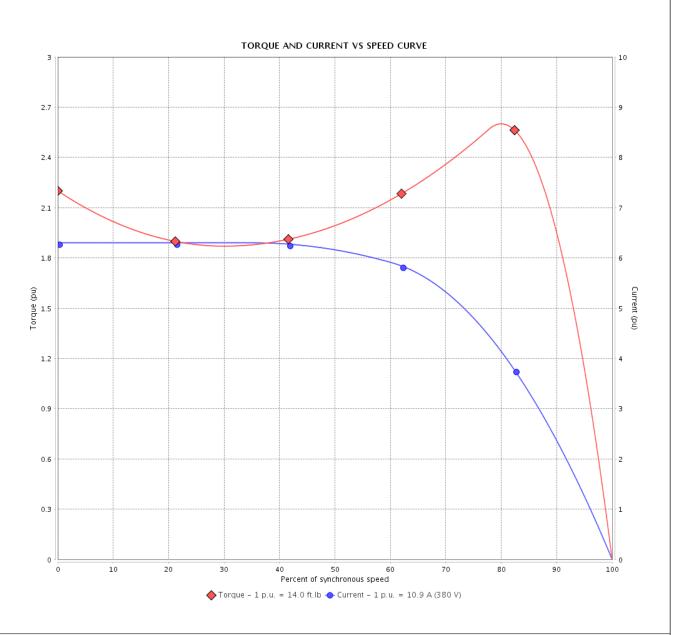
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11647930

Catalog #: 00736ET3E184T-W22



Performance : 380 V 50 Hz 2P Rated current : 10.9 A Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 14.0 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 : 80 K Breakdown torque : 260 % Temperature rise Rated speed : 2810 rpm Design : A

Locked rotor time : 28s (cold) 16s (hot)

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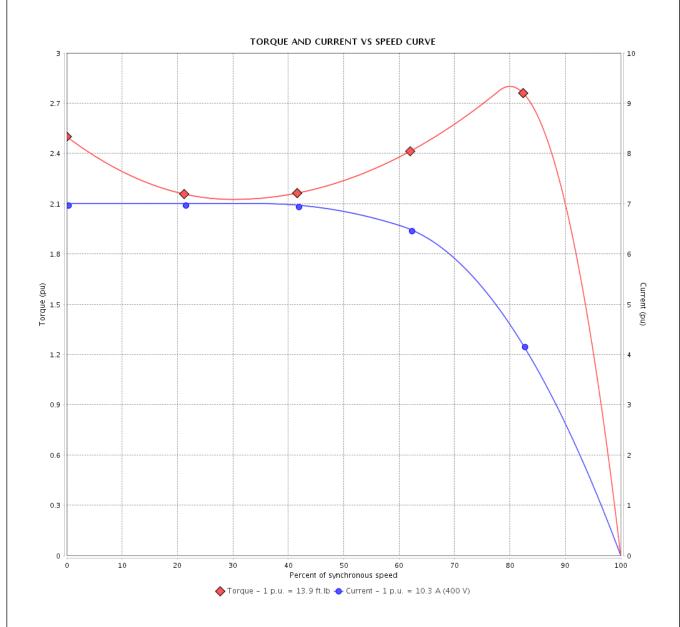


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00736ET3E184T-W22

11647930



Performance	: 400 V 50 Hz 2P IE1		
Rated current	: 10.3 A	Moment of inertia (J)	: 0.2242 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 13.9 ft.lb	Insulation class	:F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2840 rpm	Design	: A
Locked rotor time	: 27s (cold) 15s (hot)		

LOCKCU TOLOT LITT	. 2	73 (cold) 103 (flot)			
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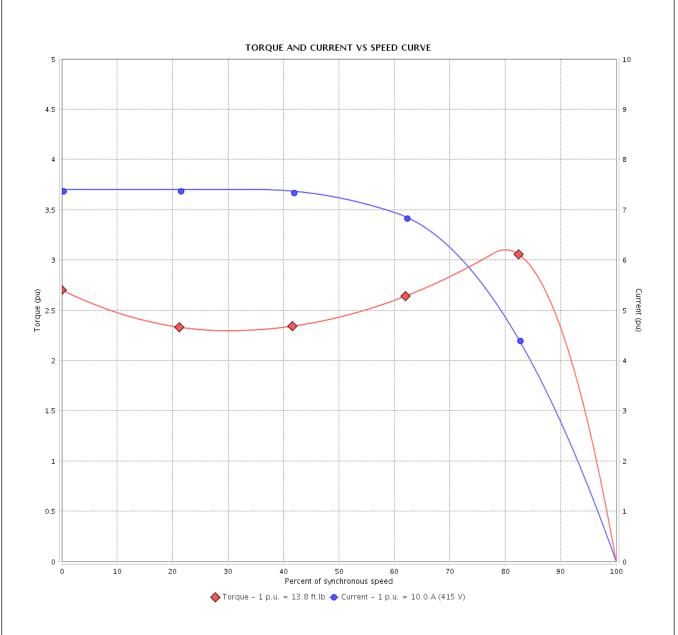
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11647930

Catalog #: 00736ET3E184T-W22



Performance	: 415 V 50 Hz 2P IE2		
Rated current	: 10.0 A	Moment of inertia (J)	: 0.2242 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 13.8 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2860 rpm	Design	: A
Locked rotor time	: 27s (cold) 15s (hot)	'	

Locked rotor time : 27s (cold) 15s (hot)

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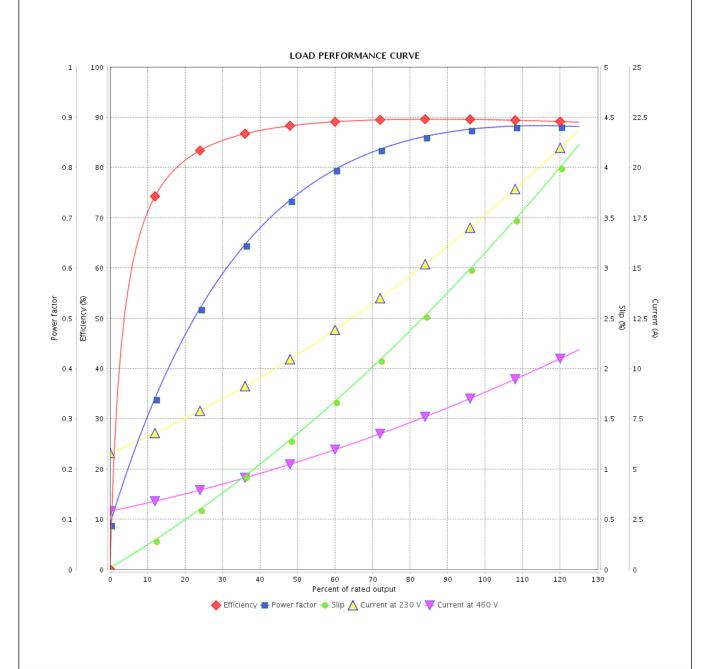


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11647930

Phase

Catalog #: 00736ET3E184T-W22



	·				*	
Performance	: 2	230/460 V 60 Hz 2P				
Rated current	red current : 17.5/8.76 A		Moment of	Moment of inertia (J)		.lb
LRC	: 8	3.2	Duty cycle	•	: Cont.(S1)	
Rated torque		11.3 ft.lb	Insulation	class	:F	
Locked rotor torq	ue : 2	270 %	Service fa	ctor	: 1.25	
Breakdown torque		330 %	Temperat	Temperature rise		
Rated speed	: 3	3485 rpm	Design		: A	
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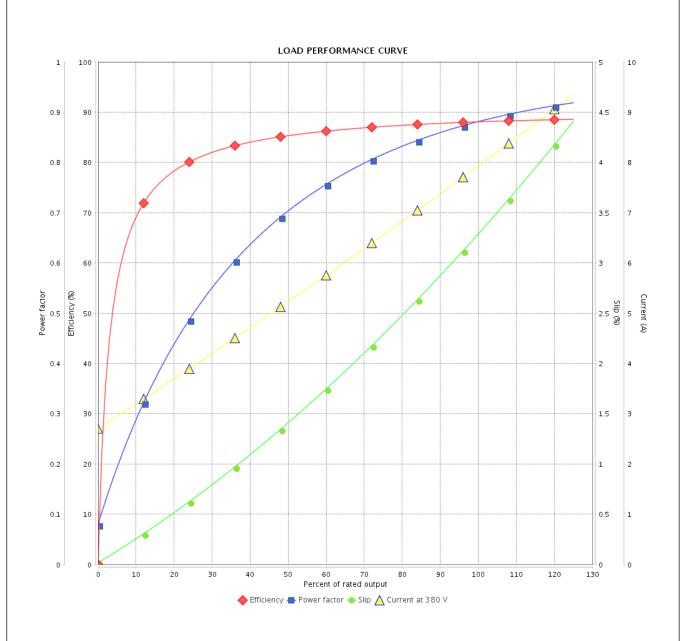
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11647930

Catalog #: 00736ET3E184T-W22



Performance	: 380 V 50 Hz 2P IE3				
Rated current	ated current : 7.84 A		Moment of inertia (J)		.lb
LRC	: 8.3	Duty cycle		: Cont.(S1)	
Rated torque	: 9.96 ft.lb	Insulation	class	: F	
Locked rotor torque	: 310 %	Service factor Temperature rise		: 1.00 : 80 K	
Breakdown torque	: 360 %				
Rated speed	: 2900 rpm	Design		: A	
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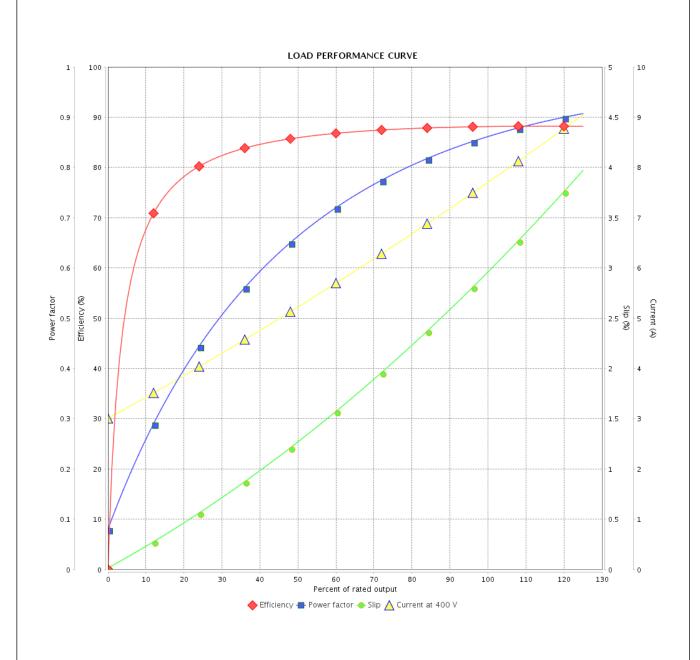
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736ET3E184T-W22

11647930

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.62 A : 9.1 : 9.93 ft.lb : 350 % : 390 % : 2910 rpm	Moment of i Duty cycle Insulation cl Service fact Temperature Design	ass or	: 0.2242 sq.ft.l : Cont.(S1) : F : 1.00 : 80 K : A	b
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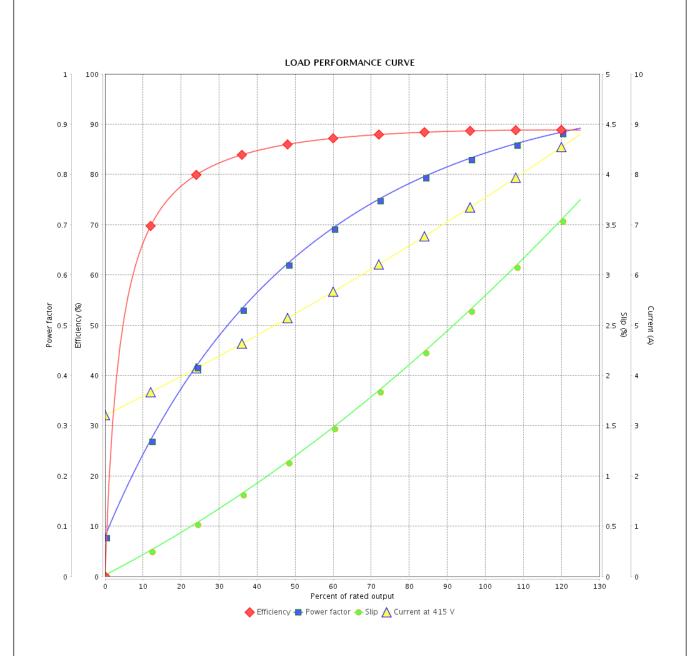
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Phase

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Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 7	: 7.47 A Mon		of inertia (J)	: 0.2242 sq.ft.lb	
LRC	: 9	.6	Duty cycle	е	: Cont.(S1)	
Rated torque	: 9	.91 ft.lb	Insulation class		: F	
Locked rotor tord	que : 3	70 %	Service factor		: 1.00	
Breakdown torqu	eakdown torque : 430 % Temp		Temperat	Temperature rise : 80 K		
Rated speed	: 2	915 rpm	Design		: A	
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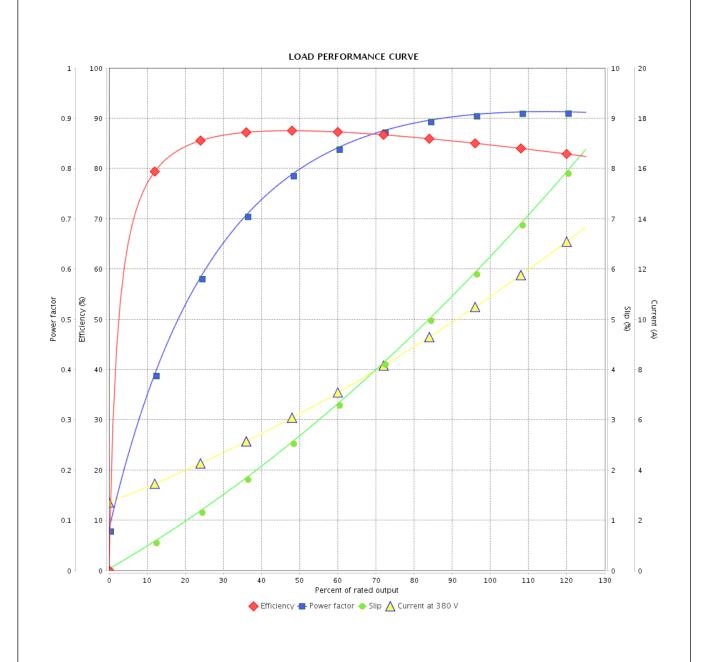


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11647930

Phase

Catalog #: 00736ET3E184T-W22



Performance	: 380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.9 A : 6.3 : 14.0 ft.lb : 220 % : 260 % : 2810 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2242 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : A	lb
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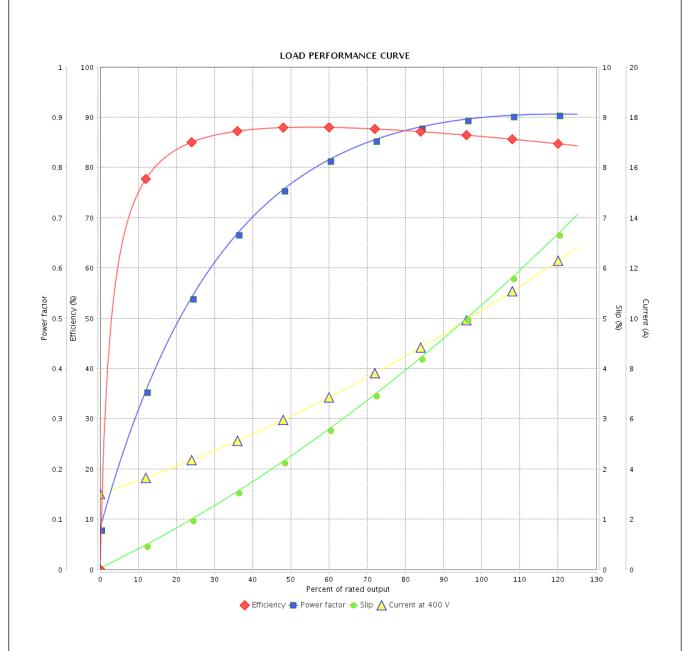
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Product line : NEMA Premium Efficiency Three- Product code : 11647930

Phase

Catalog #: 00736ET3E184T-W22



Performance : 400 V 50 Hz 2P IE1 : 10.3 A Rated current Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 13.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2840 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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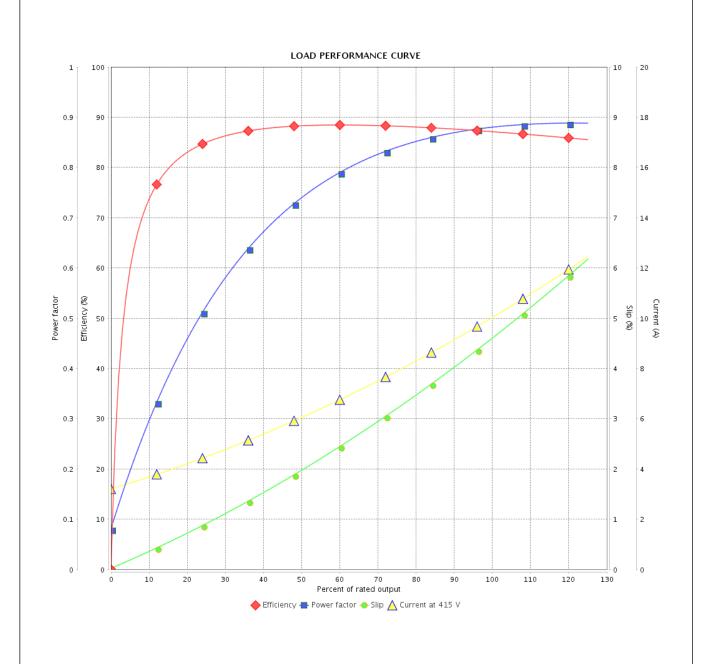


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11647930

Phase

Catalog #: 00736ET3E184T-W22



Performance	:	415 V 50 Hz 2P IE2					
Rated current	:	10.0 A	Moment o	f inertia (J)	: 0.2242 sq.ft.	lb	
LRC	:	7.4	Duty cycle	;	: Cont.(S1)		
Rated torque	:	13.8 ft.lb	Insulation	class	: F		
Locked rotor torque : 2		270 %	Service fa	ctor	: 1.00		
Breakdown torque	:	310 %	Temperati	Temperature rise		: 80 K	
Rated speed	:	2860 rpm	Design		: A		
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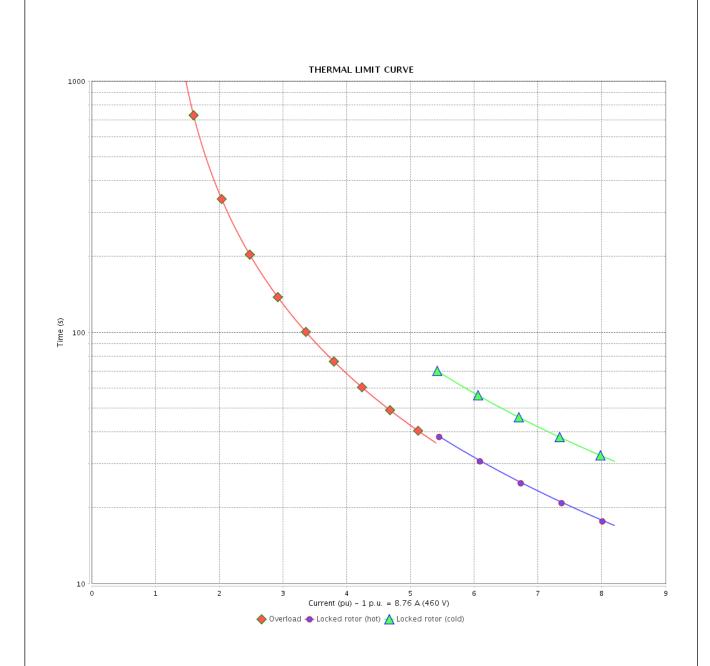


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11647930	
	P.	hase		Catalog # :	00736ET3E1	84T-W22
Performance		30/460 V 60 Hz 2P	Managet	finantia (I)	. 0 2242 #1	L
Rated current LRC	: 8.		Duty cycle	f inertia (J)	: 0.2242 sq.ft.l : Cont.(S1)	υ
Rated torque Locked rotor torqu		1.3 ft.lb 70 %	Insulation Service fa	class	: F : 1.25	
Breakdown torque		70 % 30 %	Temperati		: 80 K	
Rated speed		485 rpm	Design		: A	
Heating constant						
Cooling constant		Changes Commercial		Dorform	Charles -	Data
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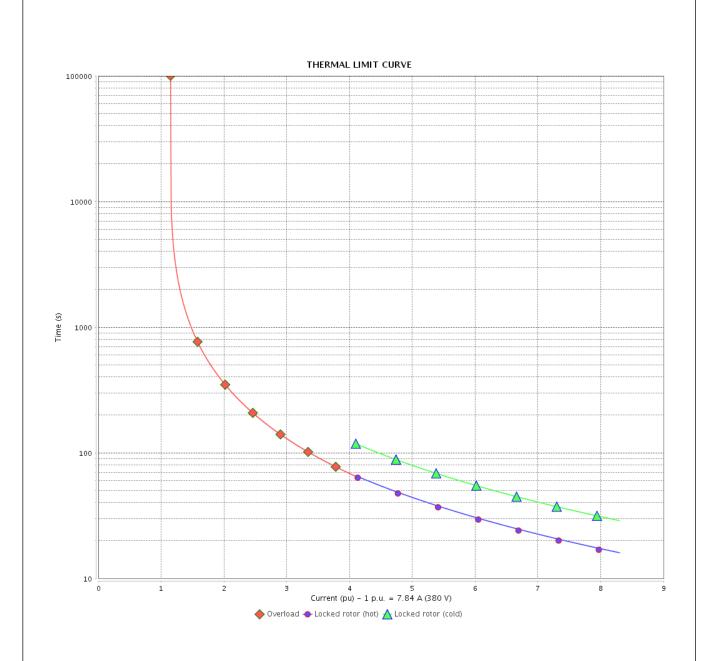


Customer	:					
Product line		NEMA Premium Efficiency hase	Three-	Product code :	11647930	
	F	nase		Catalog # :	00736ET3E1	84T-W22
Performance	· 35	30 V 50 Hz 2P IE3				
Rated current		84 A	Moment o	f inertia (J)	: 0.2242 sq.ft.l	b
LRC	: 8.		Duty cycle	;	: Cont.(S1) : F	
Rated torque Locked rotor torque		96 IU.ID 10 %	Service fa		: 1.00	
Breakdown torque Rated speed	: 36	60 % 900 rpm	Temperatu Design	ure rise	: 80 K : A	
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Cooling constant						
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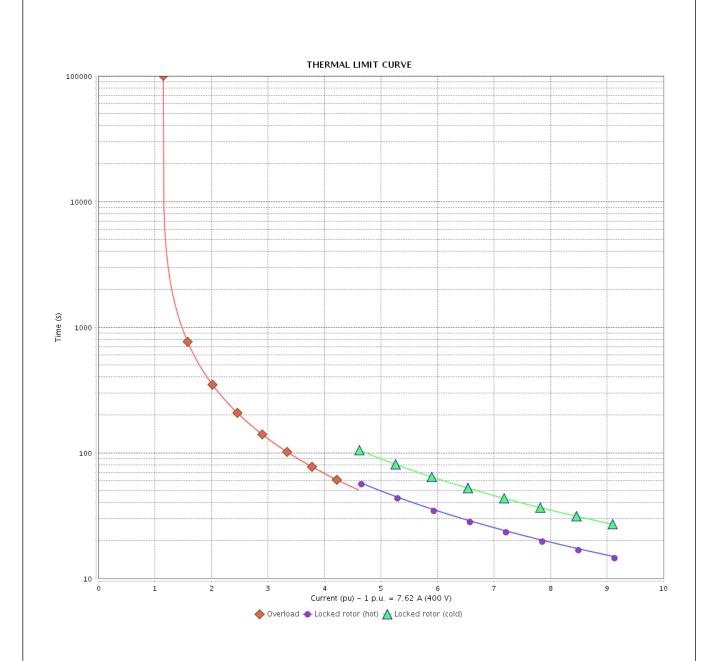


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11647930 00736ET3E1	84T-W22
					0070021021	
Performance		: 400 V 50 Hz 2P IE3				
Rated current LRC		: 7.62 A : 9.1	Moment of Duty cycle	of inertia (J) e	: 0.2242 sq.ft.l : Cont.(S1)	b
Rated torque		: 9.93 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 350 % : 390 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 2910 rpm	Design	· 	: A	
Heating constan						
Cooling constant	t	Change - O		Dout	Ohl !	Data
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Three Phase Induction Motor - Squirrel Cage



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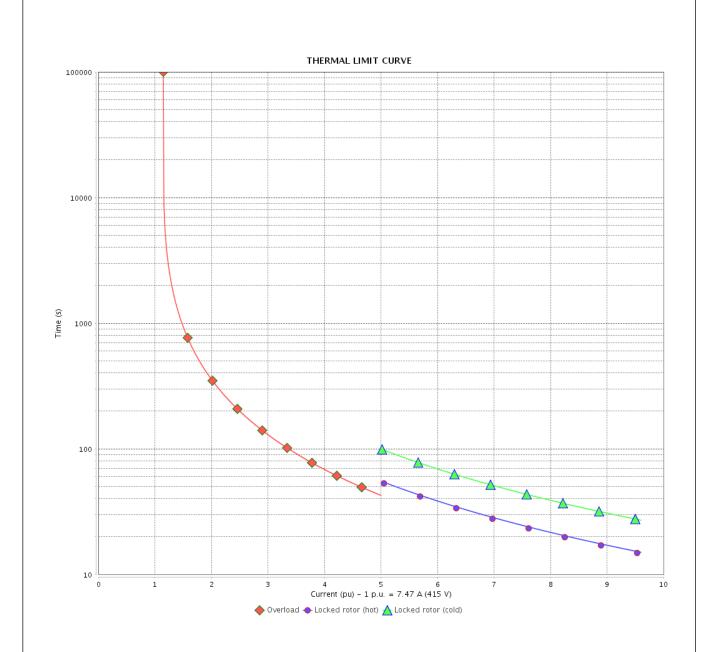


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11647930	
		That		Catalog # :	00736ET3E1	84T-W22
Performance		: 415 V 50 Hz 2P IE3				
Rated current		7.47 A		of inertia (J)	: 0.2242 sq.ft.ll	0
LRC Rated torque		: 9.6 : 9.91 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torg	que :	: 370 %	Service fa	ctor	: 1.00	
Breakdown torqu		: 430 %	Temperati	ure rise	: 80 K : A	
Rated speed		: 2915 rpm	Design		. ^	
Heating constant Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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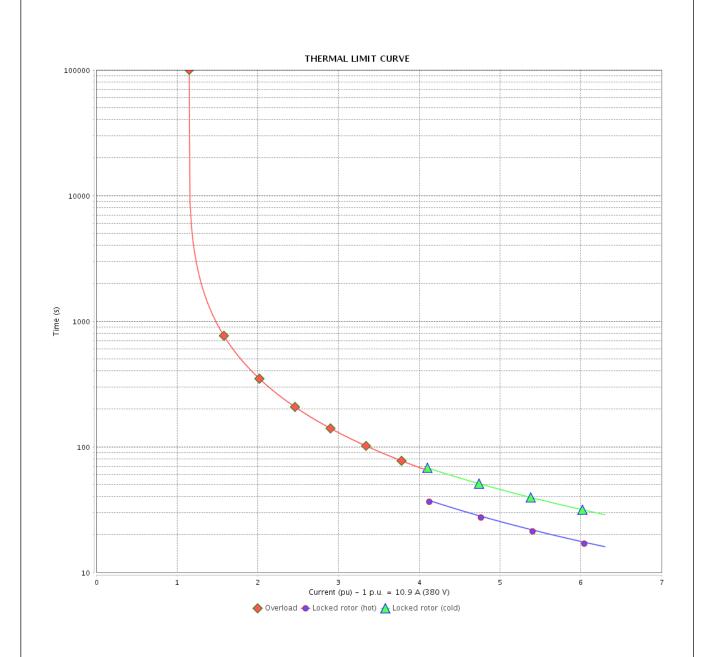


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11647930 00736ET3E1	84T-W22
				<u> </u>		
Performance		: 380 V 50 Hz 2P				
Rated current		: 10.9 A	Moment o	of inertia (J)	: 0.2242 sq.ft.l	b
LRC Rated torque		: 6.3 : 14.0 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		: 220 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 260 % : 2810 rpm	Temperat Design	ure rise	: 80 K : A	
Heating constant						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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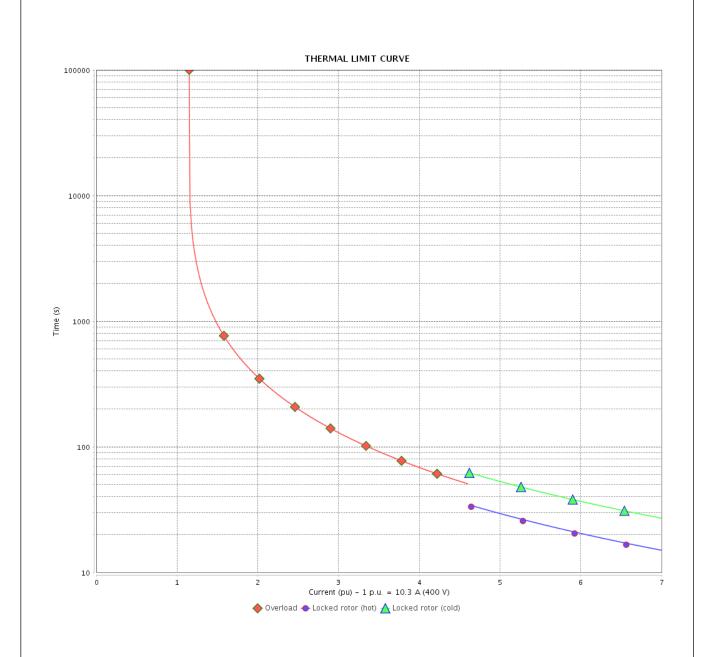


Customer	:					
Product line		NEMA Premium Efficiency hase	Three-	Product code :	11647930	
	F	nase		Catalog # :	00736ET3E1	84T-W22
Performance		00 V 50 Hz 2P IE1	1			
Rated current LRC	: 10 : 7.	0.3 A 0	Moment o Duty cycle	f inertia (J)	: 0.2242 sq.ft.l : Cont.(S1)	b
Rated torque	: 13	3.9 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		50 % 30 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		340 rpm	Design		: A	
Heating constant						
Cooling constant		Channa O		Dorf	Ohl	D-1-
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Three Phase Induction Motor - Squirrel Cage



Customer



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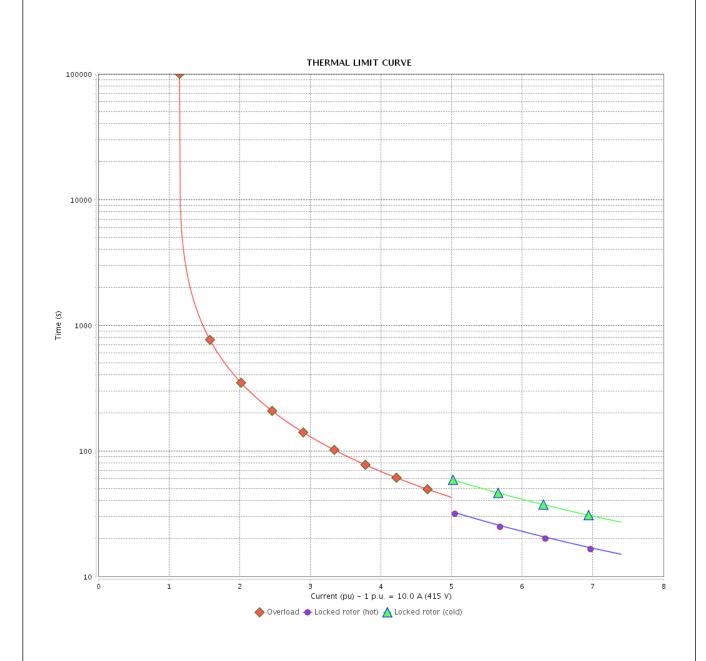


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11647930	047 W00
				Catalog # :	00736ET3E1	041-0022
Performance		: 415 V 50 Hz 2P IE2				
Rated current		: 10.0 A	Moment of	of inertia (J)	: 0.2242 sq.ft.l	b
LRC Rated torque		: 7.4 : 13.8 ft.lb	Duty cycle Insulation	е	: Cont.(S1) : F	
Locked rotor tord	que	: 270 %	Service fa		: 1.00	
Breakdown torqu	ue	: 310 %	Temperat		: 80 K : A	
Rated speed		: 2860 rpm	Design		. A	
Heating constant Cooling constant						
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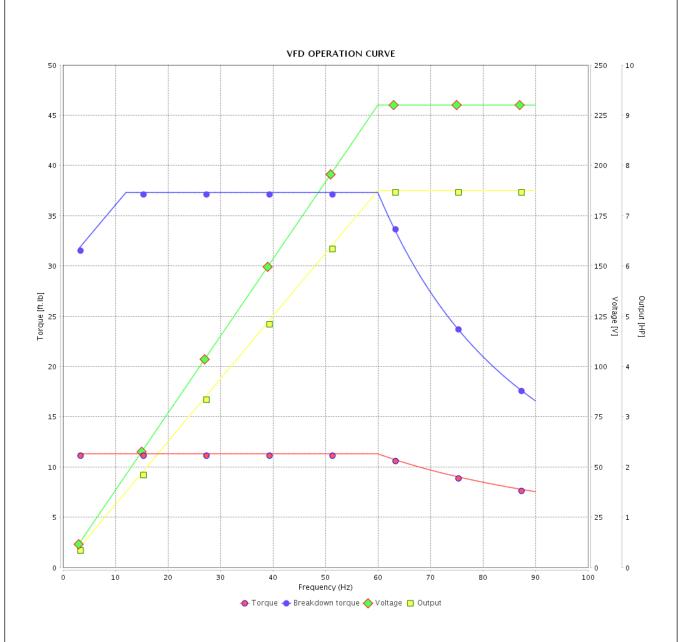
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736ET3E184T-W22

11647930

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Performance	: 230/460 V 60 Hz 2P	V 60 Hz 2P				
Rated current	: 17.5/8.76 A	Moment of inertia (J)		: 0.2242 sq.ft.lb		
LRC	: 8.2	Duty cycle		: Cont.(S1)		
Rated torque : 11.3 ft.lb		Insulation class		: F		
Locked rotor torque	: 270 %	Service factor		: 1.25		
Breakdown torque	: 330 %	Temperature rise : 80 K Design : A		: 80 K		
Rated speed	: 3485 rpm			: A		
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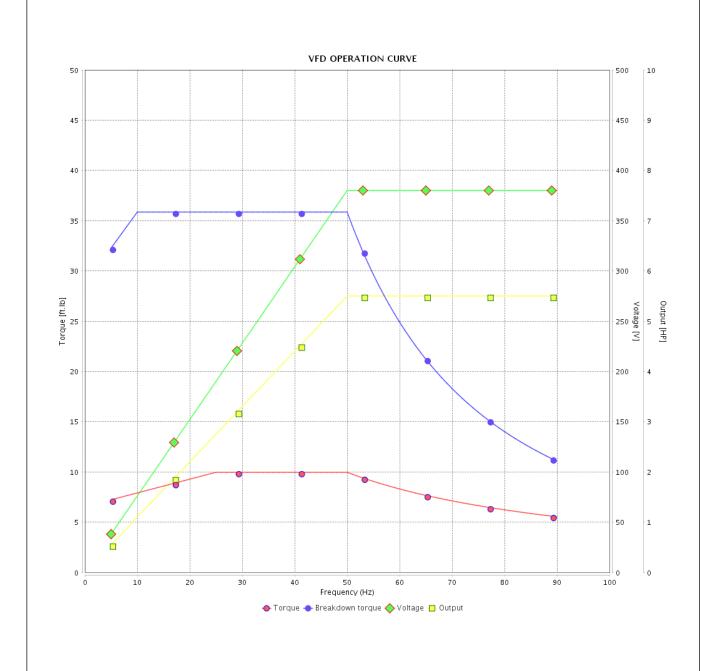
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736ET3E184T-W22

11647930



Performance	:	380 V 50 Hz 2P IE3					
Rated current	ated current : 7.84 A		Moment o	f inertia (J)	: 0.2242 sq.ft.lb		
LRC	:	8.3	Duty cycle	1			
Rated torque	:	9.96 ft.lb	Insulation	class	: F		
Locked rotor torqu	ie :	310 %	Service fa	Service factor			
Breakdown torque	e :	: 360 % Temperature rise		ure rise	: 80 K		
Rated speed : 2900 rpm		Design		: A			
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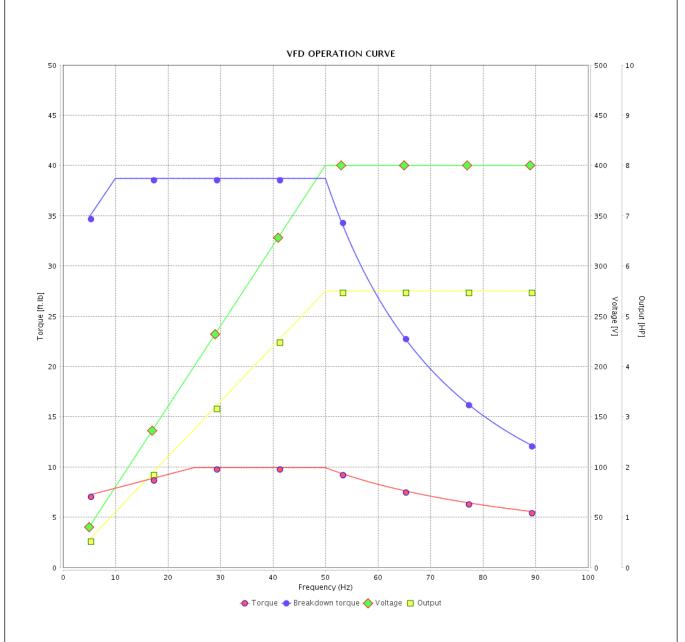
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11647930

Catalog #: 00736ET3E184T-W22

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.62 A : 9.1 : 9.93 ft.lb : 350 % : 390 % : 2910 rpm Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2242 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : A	lb	
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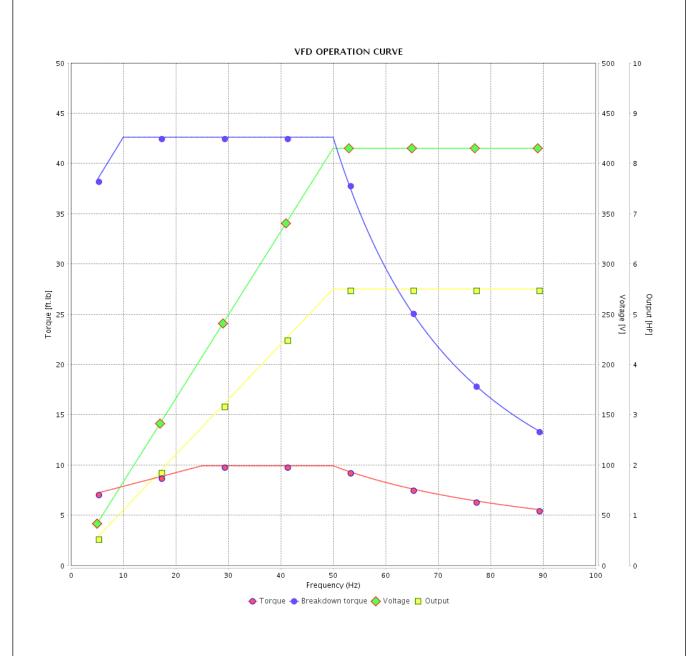


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Product line : NEMA Premium Efficiency Three- Product code : 11647930

Phase

Catalog #: 00736ET3E184T-W22



Performance	: 4	: 415 V 50 Hz 2P IE3				
Rated current	: 7.47 A Momen		Moment o	f inertia (J)	: 0.2242 sq.ft.	.lb
LRC	: 9	.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 9	.91 ft.lb	Insulation	class	: F	
Locked rotor torque	e :3	70 %	Service fa	ctor	: 1.00	
Breakdown torque : 430 %		30 %	Temperati	Temperature rise : 80 K		
Rated speed : 2		915 rpm	Design		: A	
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Product line : NEMA Premium Efficiency Three-

Phase

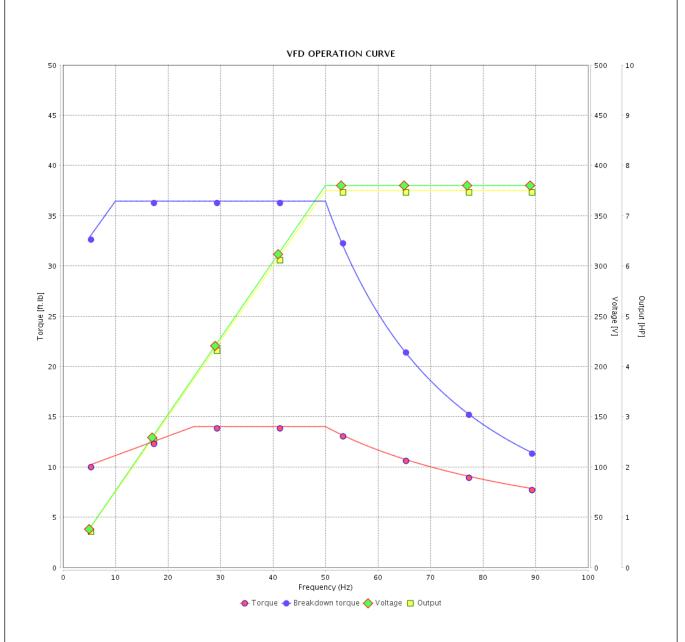
Product code: 11647930

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Performance		: 380 V 50 Hz 2F	•				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 10.9 A : 6.3 : 14.0 ft.lb : 220 % : 260 % : 2810 rpm	Dut Insi Ser Ten	ment of ty cycle ulation vice fac nperatu sign	class ctor	: 0.2242 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : A	lb
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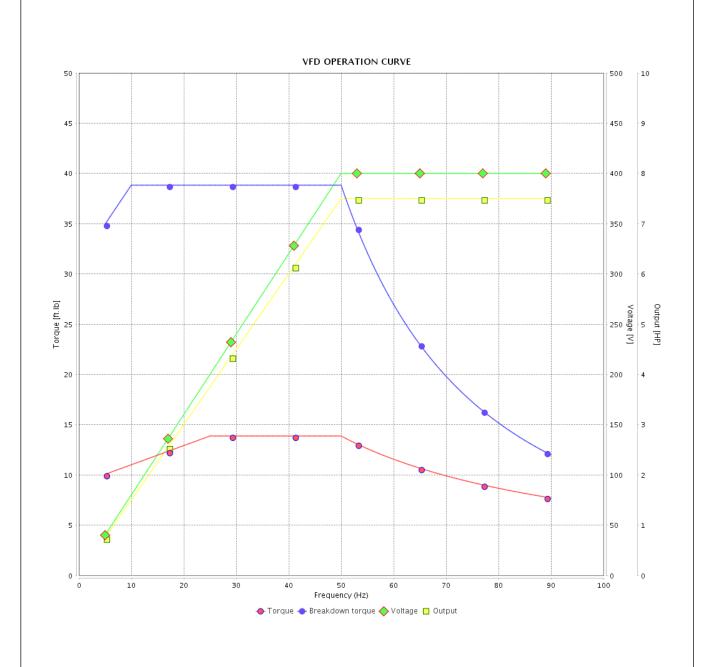
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736ET3E184T-W22

11647930



Performance		: 400 V 50 Hz 2P IE1						
Rated current	: 10	0.3 A Moment of inertia (J)		: 0.2242 sq.ft.lb				
LRC	: 7.	: 13.9 ft.lb Insulation : 250 % Service fa		Duty cycle		: Cont.(S1)		
Rated torque	: 13			class	: F : 1.00			
Locked rotor torqu	e : 25			ctor				
Breakdown torque	: 28			Temperature rise Design		: 80 K : A		
Rated speed	: 28							
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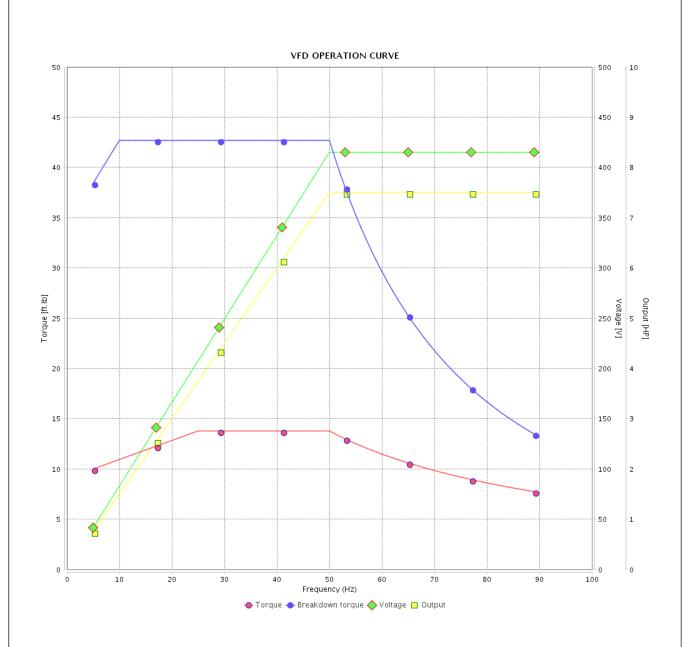
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11647930

Catalog #: 00736ET3E184T-W22



Performance : 415 V 50 Hz 2P IE2 : 10.0 A Rated current Moment of inertia (J) : 0.2242 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 13.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2860 rpm Design : A

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